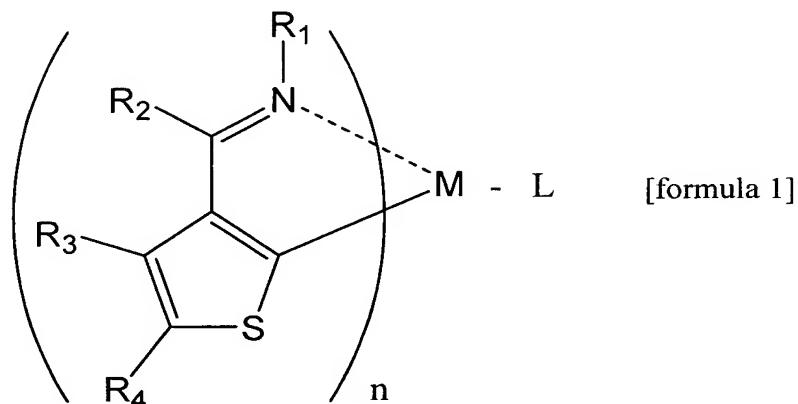


What is claimed is:

1. A phosphorescent compound represented by general formula [formula 1]:

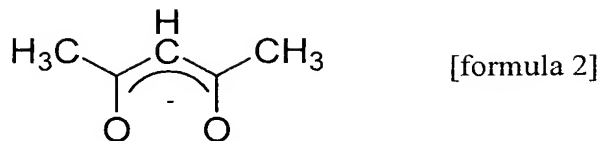


- 5 wherein R_1 is an alkyl group, an aryl group, a substituted aryl group, a heterocyclic group, or a substituted heterocyclic group. Also, R_2 is hydrogen, an alkyl group, an aryl group, a substituted aryl group, a heterocyclic group, or a substituted heterocyclic group. Also, R_3 and R_4 , each of which may be the same or different, are individually hydrogen, a halogen element, an alkyl group, an alkoxy group, an aryl group, a substituted aryl group, a heterocyclic group, or a substituted heterocyclic group. Also, M is at least one element of group 9 in the periodic table or at least one element of group 10 in the periodic table. When the M is at least one element of group 9 in the periodic table, $n=2$. When the M is at least one element of group 10 in the periodic table, $n=1$. Also, L is a monoanionic ligand having a β -diketone structure, a
 10 monoanionic bidentate chelate ligand having a carboxyl group, or a monoanionic bidentate chelate ligand having a phenolic hydroxyl group.

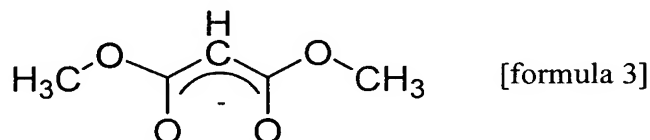
2. A phosphorescent compound according to claim 1, wherein the M is an iridium element or a platinum element.

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3. A phosphorescent compound according to claim 1, wherein the L is a monoanionic ligand represented by structural formula [formula 2].



4. A phosphorescent compound according to claim 1, wherein the L is a monoanionic ligand represented by structural formula [formula 3].



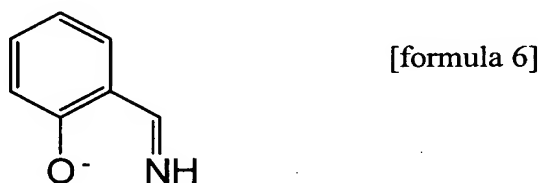
5. A phosphorescent compound according to claim 1, wherein the L is a monoanionic ligand represented by structural formula [formula 4].



6. A phosphorescent compound according to claim 1, wherein the L is a monoanionic ligand represented by structural formula [formula 5].



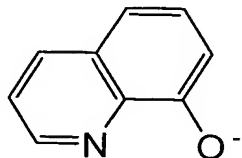
7. A phosphorescent compound according to claim 1, wherein the L is a monoanionic ligand represented by structural formula [formula 6].



8. A phosphorescent compound according to claim 1, wherein the L is a monoanionic ligand represented by structural formula [formula 7].



9. A phosphorescent compound according to claim 1, wherein the L is a monoanionic ligand represented by structural formula [formula 8].



[formula 8]

10. An electroluminescent device having the phosphorescent compound
5 according to claim 1.

11. An electroluminescent device using the phosphorescent compound according to claim 1 as a light emitter.

10 12. A light-emitting device having the electroluminescent device according to claim 10.

13. A light-emitting device having the electroluminescent device according to claim 11.

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14. An electric appliance having the light-emitting device according to claim 12 in a display portion.

15. An electric appliance having the light-emitting device according to claim
20 13 in a display portion.